FAN.CNT 1

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(FILE 'HOME' ENTERED AT 15:05:33 ON 09 DEC 2004)
     FILE 'CAPLUS' ENTERED AT 15:05:58 ON 09 DEC 2004
         273564 S ACRYLIC OR METHACRYLIC
L1
          15846 S L1 AND (MOLYBDENUM OR MO OR VANADIUM OR V)
L2
           1514 S L1 AND (MOLYBDENUN OR VANADIUM)
L3
            931 S L2 AND BINDER
              0 S L2 AND "LIQUID BINDER"
           2796 S L1 AND (MOLYBDENUM OR VANADIUM)
L7
            228 S L6 AND BINDER
              4 S L7 AND ACROLEIN
=> s 12 and binder
        164895 BINDER
           931 L2 AND BINDER
=> s 19 and acrolein
         15576 ACROLEIN
             8 L9 AND ACROLEIN
=> d bib abs 1-8
L10 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
     2004:392368 CAPLUS
DN
     140:391634
     Catalyst and production of acrylic acid
     Yunoki, Hiromi; Tanimoto, Michio
PA
     Nippon Shokubai Co., Ltd., Japan
SO
     U.S. Pat. Appl. Publ., 8 pp.
     CODEN: USXXCO
DТ
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                       KIND DATE
                                          APPLICATION NO.
                                                                  DATE
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     US 2004092769
                         A1
                                20040513
                                           US 2003-684285
                                                                  20031013
     JP 2004160342
                         A2
                                20040610
                                           JP 2002-328487
                                                                  20021112
PRAI JP 2002-328487 A
                                20021112
     A catalyst can be used for production of acrylic acid and is
     excellent in the catalytic performance (e.g. conversion of starting
     material, selectivity to product) and further has very high phys.
     strength. The catalyst is obtained by a process including heating a mixed
     liquid of starting materials including \mathbf{Mo} and \mathbf{V} as
     essential components, molding the dried material with a liquid
     binder, and calcining the resultant molding; with the catalyst
     being characterized in that the liquid binder is an aqueous liquid of pH
     7.0-10.0. The catalytic gas phase oxidation of acrolein in the
     presence of mol. O produces the acrylic acid.
L10 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
ΑN
     2003:678548 CAPLUS
DN
     139:197912
TI
     Gas-phase oxidation process and catalysts for the manufacture of
     unsaturated aldehydes and/or unsaturated carboxylic acids
ΙN
     Yunoki, Hiromi
     Nippon Shokubai Co., Ltd., Japan
PA
SO
     U.S. Pat. Appl. Publ., 10 pp.
     CODEN: USXXCO
     Patent
DT
    English
LA
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DATE APPLICATION NO.
    PATENT NO. KIND DATE
                                                                  DATE
                       A1 20030828 US 2003-358796 20030205
A2 20030909 JP 2002-54488 20020228
A1 20030903 EP 2003-2825 20030207
    US 2003162998
PΙ
    JP 2003251183
    EP 1340538
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                    A 20030910
A 20020228
                                                                   20030228
                                           CN 2003-106776
    CN 1440834
                         Α
PRAI JP 2002-54488
   A production process for a catalyst for the gas-phase oxidation synthesis of
    unsatd. aldehydes and/or an unsatd. carboxylic acids is described which
     comprises: carrying out heat treatment of an aqueous solution or slurry of a
     starting material to thus prepare a catalyst precursor P1, where the
     starting material includes molybdenum, bismuth, and iron as
     essential components; adding and mixing a binder into the P1 to
     thus prepare a catalyst precursor P2; and molding and then calcining the P2
     producing the catalyst with its production characterized by involving an
     ignition loss ratio of the catalyst precursor P1 in of 10-40% (excluding
     40%). Contacting oxygen or an oxygen-containing gas with propylene,
     isobutylene, tert-butanol, or Me tert-Bu ether with the catalyst produces
     the corresponding unsatd. aldehyde (e.g., acrolein from
     propylene) and/or unsatd. carboxylic acid (e.g., acrylic acid
     from propylene).
L10 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:436657 CAPLUS
DN 136:407416
    Catalyst composite form, its manufacture, and its use
TI
    Sakakura, Yasuyuki
IN
    Mitsubishi Chemical Corp., Japan
PA
    Jpn. Kokai Tokkyo Koho, 6 pp.
    CODEN: JKXXAF
    Patent
DT
   Japanese
LA
FAN.CNT 1
                       KIND DATE
                                           APPLICATION NO.
                                                                   DATE
    PATENT NO.
                                -----
                                            _____
PI JP 2002166180 A2 20020611 JP 2000-363382 PRAI JP 2000-363382 20001129
                         _ _ _ _
                                                                   20001129
     The invention relates to a catalyst composite form having a convenient
     size to fill a reactor, wherein a molded catalyst or a supported catalyst
     are bound by a thermally decomposable polymer compound The process
     comprises filling a reactor with a catalyst composite form and a thermally
     decomposable polymer solution, and drying to remove a solvent by flow a N2
     gas containing 02 \leq10 V/V%. The catalyst is used
     after thermally decomposing the polymer compound
L10 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
     1995:638324 CAPLUS
AN
DN
     123:59544
TI Manufacture of catalysts for synthesis of unsaturated aldehydes and
     carboxylic acids
     Shiotani, Tooru; Kuroda, Tooru
IN
PΑ
     Mitsubishi Rayon Co, Japan
     Jpn. Kokai Tokkyo Koho, 5 pp.
     CODEN: JKXXAF
DT
    Patent
     Japanese
FAN.CNT 1
PATENT NO. KIND DATE APPLICATION NO.

PI JP 07016464 A2 19950120 JP 1993-183159

JP 3278246 B2 20020430

PRAI JP 1993-183159 19930630
                                            19930630
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AB The catalysts with improved activity and reproducibility, useful for gas-phase oxidation of propylene or isobutylene, are manufactured by drying a mixture solution or an aqueous slurry containing Mo, Bi, and Fe, calcining the dried mixture, adding a 2% aqueous solution of organic binder I (R = Me, Et, etc.; n = value decided by viscosity; viscosity 1000-10,000, 20°), kneading with water and/or alc., forming, drying, and heat treatment. Stirring with heating a solution containing water 1000, NH4 paramolybdentate 500, and KNO3 1.2 part, adding a solution containing 100 parts water and 2.2 part 85% H3PO4, mixing with a solution consisting of 60% HNO3 41.9, Bi nitrate 103.0, ferric nitrate 123.9, Zn nitrate 7.0, Co nitrate 309.0, and water 1300 parts, heating with 24.1 part Sb205, drying the resulting cake at 120° for 16 h, calcining at 300° for 1 h, pulverizing the cake, kneading (100 parts) with 25 parts water and 3 parts I (R = Me, Pr, hydroxyethyl groups with ratio 25-28:5-8:3-5%; viscosity 3000-4000 cps), extrusion, drying and calcining 6 h at 500° gave a catalyst containing Mo12W0.2Bi0.9Fe1.3Sb0.7Co4.5Zn0.1K0.06Ox. Gas-phase oxidation of propylene using this catalyst at 310° gave 99.3% conversion and 89.1% selectivity of acrolein.

Ι

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L10 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
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AN 1989:213587 CAPLUS

DN 110:213587

TI Catalysts for oxidation of **acrolein** to **acrylic** acid and their manufacture

IN Kawajiri, Tatsuya; Uchida, Shinichi; Wada, Masahiro

PA Nippon Shokubai Kagaku Kogyo Co., Ltd., Japan

SO Eur. Pat. Appl., 21 pp. CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

ΡI

PA	TENT NO.			KINI)	DATE	AP	PLICATION NO.	DATE
					-				
EP	293859			A1		19881207	EP	1988-108780	19880601
EP	293859			В1		19920122			
	R: BE,	DE,	ES,	FR,	GB,	, IT			
US	4892856			Α		19900109	US	1988-201026	19880601
ES	2028180			Т3		19920701	ES	1988-108780	19880601
BR	8802702			Α		19881227	BR	1988-2702	19880603
JP	01085139			A2		19890330	JP	1988-135627	19880603
JP	05070502			B4		19931005			
CS	274469			B2		19910411	CS	1988-3865	19880603
SU	1833201			A3		19930807	SU	1988-4355922	19880603
CN	1031488			Α		19890308	CN	1988-104316	19880604
CN	1020861			В		19930526			
AU	611693			B2		19910620	AU	1988-18627	19880701
AU	8818627			A1		19900104			



PRAI JP 1987-139663 A 19870605

AB The title catalysts MoaVbXcX1dX2eX3fOx (X = W, Nb; X1 = Fe, Cu, Bi, Cr, Sb, Tl; X3 = alkali metal, alkaline earth metal; X4 = Si, Al, Ti) have sp. surface 0.50-15.0 m2/g, pore volume 0.10-0.90 mL/g, and pore diameter distribution concentrated in the ranges 0.1-1.0, 1.0-10.0, and 10.0-100 μm . The catalysts are prepared by charging an unfired catalyst material powder composition into a centrifugal flow coating apparatus to form particles and

firing

the particles. A solution of ammonium paratungstate 1560, ammonium metavanadate 1290, ammonium molybdate 5070, and ammonium dichromate 180 g in 50 L water was mixed with an aqueous solution of 1290 g Cu nitrate in 3 L water, evaporated, dried 5 h at 120°, and milled to .apprx.100 mesh. The powder and $\alpha\text{-Al2O3}$ particles (average diameter 1 mm) were charged to a centrifugal flow coating apparatus with H2O as a binder while blowing with air heated to 90° to give spherical particles (average diameter 5 mm) which were fired at 400° for 5 h to prepare a catalyst. The catalyst was used at 205°, giving 99.6% conversion of acrolein and 97.0% yield of acrylic acid.

L10 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1988:632365 CAPLUS

DN 109:232365

TI Manufacture of water-and blocking-resistant paper substitutes using room-temperature-curable resin

IN Abe, Sunao; Kato, Naoyuki; Aoki, Masahiro; Tsukamoto, Takeo; Ichii, Masaru; Yamada, Minoru

PA Mitsubishi Yuka Badische Co., Ltd., Japan; Nisshinbo Industries, Inc.

SO Jpn. Kokai Tokkyo Koho, 8 pp. CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

T Full .	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 63101435	A2	19880506	JР 1986-247475	10061000
FI	JP 04055614	B4	19920903	JP 1986-24/4/5	19861020
PRAI	JP 1986-247475		19861020		

OS MARPAT 109:232365

AB Printable, coated synthetic paper with good adhesion between base material and coating, water and blocking resistance, and weatherability are prepared by coating a base film of polyolefin, poly(ethylene terephthalate), or polystyrene with a room temperature-curable binder containing a hydrazine derivative containing ≥ 2 hydrazine residues, an aqueous dispersion of CO-containing acrylic copolymer, and, optionally, an inorg. fine powder. A 60-μm corona discharge-treated polypropylene film was coated (6 μm) with a primer (A) containing a polymer of styrene (I) 48, 2-ethylhexyl acrylate (II) 43, acrylic acid (III) 2, acrolein (IV) 5, and acrylamide (V) 2% and 8 parts adipic acid dihydrazide (VI), dried 60 s at 100°, coated 25 μm with another primer containing A 30, an emulsion polymer (containing I 18, II

73,

III 2, IV 5, and V 2% and 8 parts VI) 10, CaCO3 powder 100, and other additives 51 parts, and dried 60 s at 100° to give synthetic paper with excellent water and blocking resistance and adhesion between the base film and the coating.

L10 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1981:626473 CAPLUS

DN 95:226473

TI Catalyst for oxidation of acrolein to acrylic acid

IN Gorshkova, T. P.; Tarasova, D. V.; Andrushkevich, T. V.; Nikoro, T. A.; Bondareva, V. M.; Berdnikov, B. M.

PA Institute of Catalysis, Novosibirsk, USSR; Special Construction-Technological Bureau of Catalytic Agents for Experimental Mfg.

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U.S.S.R.
     CODEN: URXXAF
 DT
     Patent
 LA
     Russian
 FAN.CNT 1
      ... NO. KIND DATE
SU 858916
     PATENT NO.
                                           APPLICATION NO.
                        ---- -----
                                           -----
PI SU 858916 A1 19810831 SU 1979-2819096
PRAI SU 1979-2819096 A 19790917
                                                                   19790917
     The title catalyst contains \boldsymbol{v} oxide, \boldsymbol{Mo} oxide, and \boldsymbol{CuO}
     as promoter on a SiO2 support and is prepared by mixing solns. of the active
     components with the support, spray drying and heat treating. A catalyst
     with increased activity and mech. strength was obtained by granulating the
     catalyst material after drying, and adding the promoter in a
     binder composition during the granulation.
L10 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
     1969:62894 CAPLUS
AN
DN
     70:62894
TI
     Electrolytic electrophotographic process
IN
     Tamai, Yasuo; Takimoto, Masaaki; Honjo, Satoru; Mayakawa, Yoshihide
PA
     Fuji Photo Film Co., Ltd.
SO
     Fr., 4 pp.
     CODEN: FRXXAK
DT
     Patent
LA
     French
FAN.CNT 1
     PATENT NO. KIND DATE
     PATENT NO.
                                          APPLICATION NO.
                                ------
                                            ------
     FR 1512079
                                19680202
     DE 1522613
                                            DE
     GB 1161777
                                            GB
     GB 1178552
                                            GB
PRAI JP
                               19660221
AΒ
     The electrolytes used in a 2-50% aqueous solution to develop layers of ZnO in
     insulating binder on Al as cathode have a terminal >C:CH2 group
     with graft polymerization chain reactivity: acrylic acid, acrylamide,
     acrylonitrile, polyethylene glycol dimethacrylate, glycerol diacrylate,
     acrolein. Thus, an 18-\mu ZnO-Pliolite S-5D layer on Al is
     immersed in a solution of 15 g. acrylamide in 100 cc. H2O, and a potential of
     7.5 {f v}. is applied with a 15 mm. distance between the Al cathode
     and Pt anode. Upon removal after 20 sec. only the exposed areas are
     impregnated with electrolyte and accept aqueous ink, while the unexposed areas
     are hydrophobic.
=> d his
     (FILE 'HOME' ENTERED AT 15:05:33 ON 09 DEC 2004)
     FILE 'CAPLUS' ENTERED AT 15:05:58 ON 09 DEC 2004
L_1
         273564 S ACRYLIC OR METHACRYLIC
L_2
         15846 S L1 AND (MOLYBDENUM OR MO OR VANADIUM OR V)
L_3
          1514 S L1 AND (MOLYBDENUN OR VANADIUM)
L_4
           931 S L2 AND BINDER
L5
             0 S L2 AND "LIQUID BINDER"
          2796 S L1 AND (MOLYBDENUM OR VANADIUM)
L6
L7
           228 S L6 AND BINDER
L8
             4 S L7 AND ACROLEIN
L9
           931 S L2 AND BINDER
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8 S L9 AND ACROLEIN

L10

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L10 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
     2004:392368 CAPLUS
AN
     140:391634
DN
TI
     Catalyst and production of acrylic acid
IN
     Yunoki, Hiromi; Tanimoto, Michio
PA
     Nippon Shokubai Co., Ltd., Japan
SO
     U.S. Pat. Appl. Publ., 8 pp.
     CODEN: USXXCO
DT
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                     KIND DATE APPLICATION NO.
                                                               DATE
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                                         -----
PΙ
    US 2004092769
                       A1 20040513 US 2003-684285
                                                               20031013
     JP 2004160342
                       A2 20040610 JP 2002-328487
                                                               20021112
PRAI JP 2002-328487
                             20021112
                       Α
    A catalyst can be used for production of acrylic acid and is
     excellent in the catalytic performance (e.g. conversion of starting
     material, selectivity to product) and further has very high phys.
     strength. The catalyst is obtained by a process including heating a mixed
     liquid of starting materials including {\bf Mo} and {\bf V} as
     essential components, molding the dried material with a liquid
    binder, and calcining the resultant molding; with the catalyst
    being characterized in that the liquid binder is an aqueous liquid of pH
     7.0-10.0. The catalytic gas phase oxidation of acrolein in the
    presence of mol. O produces the acrylic acid.
L10 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN
    2003:678548 CAPLUS
DN
    139:197912
TΙ
    Gas-phase oxidation process and catalysts for the manufacture of
    unsaturated aldehydes and/or unsaturated carboxylic acids
IN
    Yunoki, Hiromi
PΑ
    Nippon Shokubai Co., Ltd., Japan
SO
    U.S. Pat. Appl. Publ., 10 pp.
    CODEN: USXXCO
    Patent
דת
LA
    English
FAN.CNT 1
                                       APPLICATION NO. DATE
    PATENT NO.
                    KIND DATE
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                             -----
                                        -----
    US 2003162998
РΤ
                      A1 20030828 US 2003-358796
                                                             20030205
    JP 2003251183
                       A2 20030909 JP 2002-54488
                                       EP 2003-2825
                       A1 20030903
    EP 1340538
                                                              20030207
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
    CN 1440834
                        Α
                              20030910
                                         CN 2003-106776
                                                               20030228
PRAI JP 2002-54488
                        Α
                              20020228
    A production process for a catalyst for the gas-phase oxidation synthesis of
    unsatd. aldehydes and/or an unsatd. carboxylic acids is described which
    comprises: carrying out heat treatment of an aqueous solution or slurry of a
    starting material to thus prepare a catalyst precursor P1, where the
    starting material includes molybdenum, bismuth, and iron as
    essential components; adding and mixing a binder into the P1 to
    thus prepare a catalyst precursor P2; and molding and then calcining the P2
    producing the catalyst with its production characterized by involving an
    ignition loss ratio of the catalyst precursor P1 in of 10-40% (excluding
    40%). Contacting oxygen or an oxygen-containing gas with propylene,
    isobutylene, tert-butanol, or Me tert-Bu ether with the catalyst produces
    the corresponding unsatd. aldehyde (e.g., acrolein from
    propylene) and/or unsatd. carboxylic acid (e.g., acrylic acid
```

from propylene).

L10 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:436657 CAPLUS

DN 136:407416

TI Catalyst composite form, its manufacture, and its use

IN Sakakura, Yasuyuki

PA Mitsubishi Chemical Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				~= ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
ΡI	JP 2002166180	A2	20020611	JP 2000-363382	20001129
PRAI	JP 2000-363382		20001129		

The invention relates to a catalyst composite form having a convenient size to fill a reactor, wherein a molded catalyst or a supported catalyst are bound by a thermally decomposable polymer compound. The process comprises filling a reactor with a catalyst composite form and a thermally decomposable polymer solution, and drying to remove a solvent by flow a N2 gas containing $02 \le 10 \ \text{V/V}$ %. The catalyst is used after thermally decomposing the polymer compound

L10 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1995:638324 CAPLUS

DN 123:59544

TI Manufacture of catalysts for synthesis of unsaturated aldehydes and carboxylic acids

IN Shiotani, Tooru; Kuroda, Tooru

PA Mitsubishi Rayon Co, Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp. CODEN: JKXXAF

DT Patent

LA Japanese

FAN. CNT 1

FAM.CNI I				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 07016464	A2	19950120	JP 1993-183159	19930630
JP 3278246	B2	20020430		
PRAI JP 1993-183159		19930630		
GI				

AB The catalysts with improved activity and reproducibility, useful for gas-phase oxidation of propylene or isobutylene, are manufactured by drying a mixture solution or an aqueous slurry containing Mo, Bi, and Fe, calcining the dried mixture, adding a 2% aqueous solution of organic binder I (R = Me, Et, etc.; n = value decided by viscosity; viscosity 1000-10,000, 20°), kneading with water and/or alc., forming, drying, and heat treatment. Stirring with heating a solution containing water 1000, NH4

paramolybdentate 500, and KNO3 1.2 part, adding a solution containing 100 parts water and 2.2 part 85% H3PO4, mixing with a solution consisting of 60% HNO3 41.9, Bi nitrate 103.0, ferric nitrate 123.9, Zn nitrate 7.0, Co nitrate 309.0, and water 1300 parts, heating with 24.1 part Sb2O5, drying the resulting cake at 120° for 16 h, calcining at 300° for 1 h, pulverizing the cake, kneading (100 parts) with 25 parts water and 3 parts I (R = Me, Pr, hydroxyethyl groups with ratio 25-28:5-8:3-5%; viscosity 3000-4000 cps), extrusion, drying and calcining 6 h at 500° gave a catalyst containing Mol2W0.2Bi0.9Fel.3Sb0.7Co4.5Zn0.1K0.060x. Gas-phase oxidation of propylene using this catalyst at 310° gave 99.3% conversion and 89.1% selectivity of acrolein.

L10 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1989:213587 CAPLUS

DN 110:213587

TI Catalysts for oxidation of acrolein to acrylic acid and their manufacture

IN Kawajiri, Tatsuya; Uchida, Shinichi; Wada, Masahiro

PA Nippon Shokubai Kagaku Kogyo Co., Ltd., Japan

SO Eur. Pat. Appl., 21 pp. CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PA	TENT NO.		KINI)	DATE	AP:	PLICATION NO.	DATE
PI		293859		A1	-	19881207	EP	1988-108780	 19880601
	EP	293859 R: BE, I	DE, ES,	B1 FR,	GB,	19920122 . IT			
	US	4892856		Α		19900109	US	1988-201026	19880601
	ES	2028180		Т3		19920701	ES	1988-108780	19880601
	BR	8802702		Α		19881227	BR	1988-2702	19880603
	JΡ	01085139		A 2		19890330	JP	1988-135627	19880603
	ĴΡ	05070502		B4		19931005			
	CS	274469		B2		19910411	CS	1988-3865	19880603
	SU	1833201		A3		19930807	SU	1988-4355922	19880603
	CN	1031488		A		19890308	CN	1988-104316	19880604
	CN	1020861		В		19930526			
	ΑU	611693		B2		19910620	AU	1988-18627	19880701
	ΑU	8818627		A1		19900104			
PRAI	JP	1987-13966	53	Α		19870605			

AB The title catalysts MoaVbXcX1dX2eX3fOx (X = W, Nb; X1 = Fe, Cu, Bi, Cr, Sb, Tl; X3 = alkali metal, alkaline earth metal; X4 = Si, Al, Ti) have sp. surface 0.50-15.0 m2/g, pore volume 0.10-0.90 mL/g, and pore diameter distribution concentrated in the ranges 0.1-1.0, 1.0-10.0, and 10.0-100 μm . The catalysts are prepared by charging an unfired catalyst material powder composition into a centrifugal flow coating apparatus to form particles and firing

the particles. A solution of ammonium paratungstate 1560, ammonium metavanadate 1290, ammonium molybdate 5070, and ammonium dichromate 180 g in 50 L water was mixed with an aqueous solution of 1290 g Cu nitrate in 3 L water, evaporated, dried 5 h at 120°, and milled to .apprx.100 mesh. The powder and α -Al203 particles (average diameter 1 mm) were charged to a centrifugal flow coating apparatus with H20 as a **binder** while blowing with air heated to 90° to give spherical particles (average diameter 5 mm) which were fired at 400° for 5 h to prepare a catalyst. The catalyst was used at 205°, giving 99.6% conversion of **acrolein** and 97.0% yield of **acrylic** acid.



L10 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1988:632365 CAPLUS

DN 109:232365

TI Manufacture of water-and blocking-resistant paper substitutes using room-temperature-curable resin

IN Abe, Sunao; Kato, Naoyuki; Aoki, Masahiro; Tsukamoto, Takeo; Ichii, Masaru; Yamada, Minoru

PA Mitsubishi Yuka Badische Co., Ltd., Japan; Nisshinbo Industries, Inc.

Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

I mv.	PATENT NO.	KIND DATE		APPLICATION NO.	DATE
ΡΊ	JP 63101435 JP 04055614	A2 B4	19880506 19920903	JP 1986-247475	19861020
PRAI	JP 1986-247475		19861020		

OS MARPAT 109:232365

AB Printable, coated synthetic paper with good adhesion between base material and coating, water and blocking resistance, and weatherability are prepared by coating a base film of polyolefin, poly(ethylene terephthalate), or polystyrene with a room temperature-curable binder containing a hydrazine derivative containing ≥ 2 hydrazine residues, an aqueous dispersion of CO-containing acrylic copolymer, and, optionally, an inorg. fine powder. A 60-μm corona discharge-treated polypropylene film was coated (6 μm) with a primer (A) containing a polymer of styrene (I) 48, 2-ethylhexyl acrylate (II) 43, acrylic acid (III) 2, acrolein (IV) 5, and acrylamide (V) 2% and 8 parts adipic acid dihydrazide (VI), dried 60 s at 100°, coated 25 μm with another primer containing A 30, an emulsion polymer (containing I 18, II

73,
III 2, IV 5, and V 2% and 8 parts VI) 10, CaCO3 powder 100, and other additives 51 parts, and dried 60 s at 100° to give synthetic paper with excellent water and blocking resistance and adhesion between the base film and the coating.

L10 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1981:626473 CAPLUS

DN 95:226473

TI Catalyst for oxidation of acrolein to acrylic acid

IN Gorshkova, T. P.; Tarasova, D. V.; Andrushkevich, T. V.; Nikoro, T. A.;
Bondareva, V. M.; Berdnikov, B. M.

PA Institute of Catalysis, Novosibirsk, USSR; Special Construction-Technological Bureau of Catalytic Agents for Experimental Mfg.

SO U.S.S.R.

CODEN: URXXAF

DT Patent

LA Russian

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	SU 858916	A1	19810831	SU 1979-2819096	19790917	
PRAI	SU 1979-2819096	A	19790917			

AB The title catalyst contains **V** oxide, **Mo** oxide, and CuO as promoter on a SiO2 support and is prepared by mixing solns. of the active components with the support, spray drying and heat treating. A catalyst with increased activity and mech. strength was obtained by granulating the catalyst material after drying, and adding the promoter in a **binder** composition during the granulation.

L10 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1969:62894 CAPLUS

DN 70:62894

TI Electrolytic electrophotographic process

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SO Fr., 4 pp. CODEN: FRXXAK DTPatent LAFrench FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. --------------------PΙ FR 1512079 19680202 DE 1522613 DF: GB 1161777 GB GB 1178552 GB PRAI JP 19660221

AB The electrolytes used in a 2-50% aqueous solution to develop layers of ZnO in an

insulating **binder** on Al as cathode have a terminal >C:CH2 group with graft polymerization chain reactivity: **acrylic** acid, acrylamide, acrylonitrile, polyethylene glycol dimethacrylate, glycerol diacrylate, **acrolein**. Thus, an $18-\mu$ ZnO-Pliolite S-5D layer on Al is immersed in a solution of 15 g. acrylamide in 100 cc. H2O, and a potential of 7.5 $\bf v$. is applied with a 15 mm. distance between the Al cathode and Pt anode. Upon removal after 20 sec. only the exposed areas are impregnated with electrolyte and accept aqueous ink, while the unexposed areas are hydrophobic.

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FILE 'CAPLUS' ENTERED AT 15:05:58 ON 09 DEC 2004
L1
         273564 S ACRYLIC OR METHACRYLIC
L_2
          15846 S L1 AND (MOLYBDENUM OR MO OR VANADIUM OR V)
           1514 S L1 AND (MOLYBDENUN OR VANADIUM)
L3
L4
            931 S L2 AND BINDER
L5
             0 S L2 AND "LIQUID BINDER"
L6
           2796 S L1 AND (MOLYBDENUM OR VANADIUM)
L7
            228 S L6 AND BINDER
             4 S L7 AND ACROLEIN
L8
L9
           931 S L2 AND BINDER
L10
             8 S L9 AND ACROLEIN
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